



SDMS Doc ID 2027615

**WASTE DISPOSAL, INC., SUPERFUND SITE
Santa Fe Springs, California**

**STATUS OF ENVIRONMENTAL INVESTIGATIONS
1988-1998
for Parcel
APN 8167-002-030**

This Status of Environmental Investigations Report for Parcel 030 includes a summary of parcel ownership and environmental data for the subject land parcel. The report incorporates information from a variety of sources and organizations collected over a 10-year period during the various investigations of the Waste Disposal, Inc. Superfund Site. During development of the report, the U.S. Environmental Protection Agency made extensive efforts to verify the accuracy of the contents. However, there remains a potential for error originating from the numerous information sources themselves, or in the transcription of those sources. Sources not included or referenced in this report may also exist that could modify or update the conclusions contained in this report. The reader is cautioned to review the original source materials stated in the bibliography and additional sources that may be in the public record before drawing any conclusions regarding the absence or extent of contamination and wastes present within an individual site parcel. In addition, not all areas of each parcel were investigated during the referenced studies. The absence of data or investigative activities for areas of parcels should not be interpreted as meaning that any given area of a parcel does not contain buried wastes. Additional investigation may be warranted to confirm the absence or presence of wastes in any specific location within a parcel. Accordingly, this report is not intended to be singly relied on by any person or entity for any purpose. This report is intended to be a general summation and analysis only of the sources included or referenced herein. The U.S. Environmental Protection Agency is not responsible for the ultimate accuracy of this report nor for any reliance thereon. This report is not an order or final agency action.

December 2000

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 9
75 Hawthorne Street
San Francisco, California 94105

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PARCEL SUMMARY: Assessor's Parcel Number 8167-002-030

Title search was conducted for the period covering January 1, 1920 to February 5, 1997

BUILDING ADDRESS:

None

CURRENT OWNER:

Pitts Family Trust, since May 3, 1983 and The Adeline R. Bennett, M.D. Trust, since May 2, 1989.
A complete chain of title, which is current through February 5, 1997, is included as Attachment 1 of this report.

INTRODUCTION

Parcel 8167-002-030 (Parcel 030) is one of 22 land parcels that collectively comprise the Waste Disposal, Inc. (WDI) Superfund Site (Figure 1). These 22 land parcels were identified by the U.S. Environmental Protection Agency (EPA) in July of 1987 as requiring investigation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) due to the prior use of the properties for waste disposal activities. This determination resulted in the WDI site's being placed on the National Priorities List (NPL) of hazardous waste sites for investigation and cleanup under CERCLA.

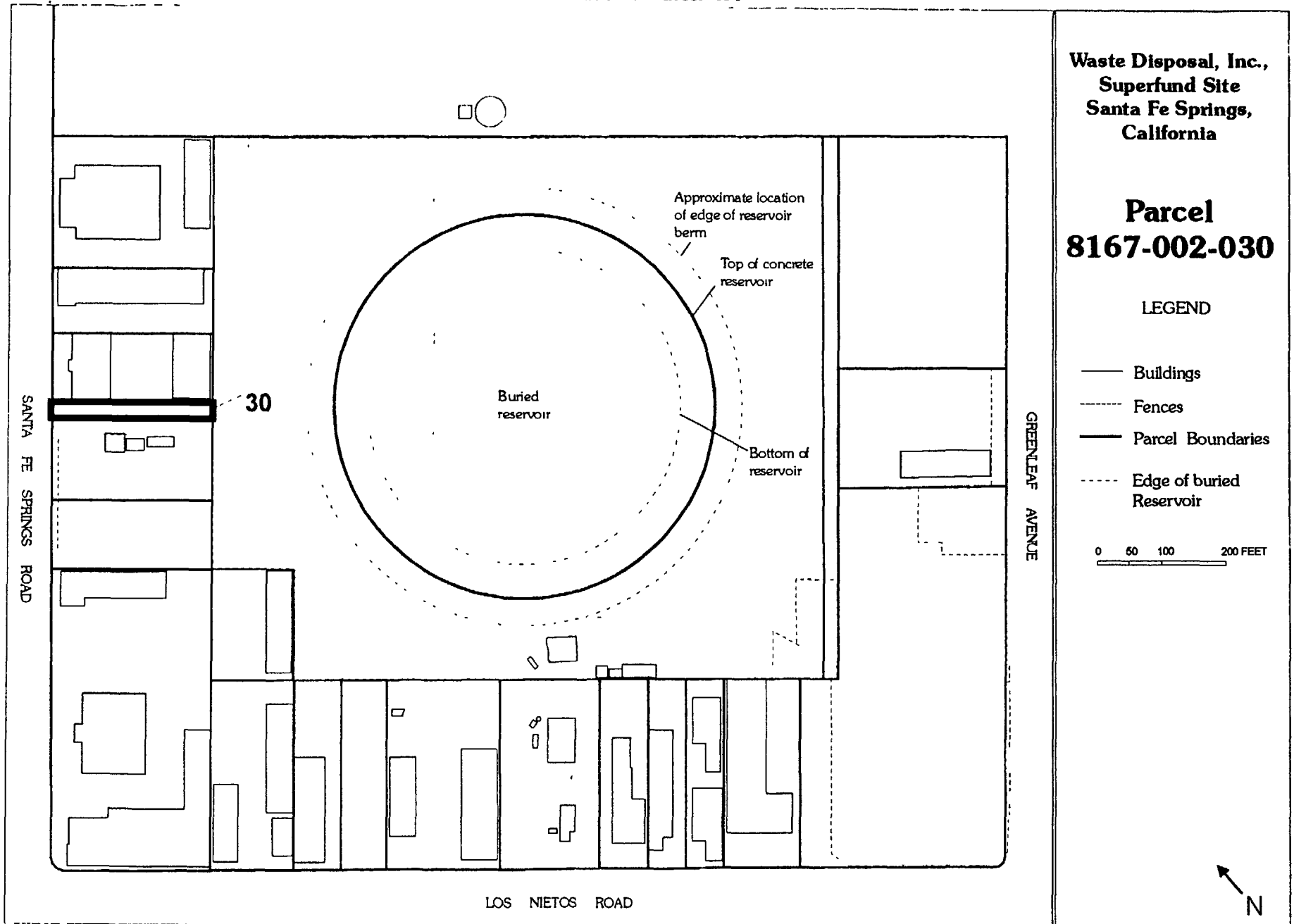
The main feature of the approximately 43-acre WDI site is a buried 42-million gallon concrete-lined reservoir in the center of the site that was constructed by 1924 as a covered container for crude petroleum storage. The areas outside of and adjacent to the reservoir began to be used for the unregulated disposal of a variety of liquid and solid wastes and the possible storage and mixing of drilling muds by the late 1920s. Between 1937 and 1941, the reservoir cover was removed. After the removal of the reservoir cover, from the early to mid 1940s onward; the reservoir began to be used for the disposal of wastes.

The site operated under a disposal permit beginning in 1949 until at least 1964, and operated perhaps for two to three years afterward. Permitted wastes included rotary drilling muds, clean earth, rock, sand, gravel, paving fragments, concrete, brick, plaster, steel mill slag, dry mud cake from oil field sumps, and acetylene sludge. Investigations have shown that disposed materials also included, but were not limited to, the following unpermitted wastes: organic wastes, oil refinery wastes, solvents, petroleum-related chemicals, and other chemical wastes. Wastes were disposed within the reservoir and on site areas adjacent to the reservoir.

During the 1950s, while disposal activities continued, the reservoir and some of the adjacent and surrounding areas began to be covered with fill material. Some of the perimeter areas of the site outside the reservoir began to be developed for commercial and industrial use. By 1963, the reservoir was covered with fill and by 1964, most, although not all, disposal activities appeared to have ceased. Grading of the fill cover continued until 1966. Currently, more than 20 buildings containing small businesses operate along the perimeter edges of three sides of the site.

In 1988, EPA began the remedial investigation (RI) of the site to determine the extent of buried wastes, and the presence of chemical wastes in soil, soil gas, and groundwater. This work involved drilling soil borings for soil sample collection and the installation of soil vapor and groundwater monitoring wells. EPA used the information collected during the RI to evaluate remedial alternatives in the WDI Feasibility Study Report, issued in 1993. Because the burial of wastes at the site makes it a landfill, EPA identified as

Figure 1: Waste Disposal, Inc., Santa Fe Springs, CA
Site Overview - Location of Parcel 030



the selected remedy in the 1993 Record of Decision (ROD) a remedy typical of landfill closures, consisting of capping of the reservoir area and excavation of wastes from some areas outside of the reservoir for consolidation with the wastes beneath the cap over the reservoir.

As of the present time, EPA has identified certain current owners or operators, former owners or operators who owned or operated the property at times of waste disposal, former operators of WDI, and generators of wastes disposed of at the site. These parties are considered as potentially responsible parties (PRPs) under CERCLA. Under CERCLA, PRPs can be required to remediate any environmental and human health threats through response actions and to reimburse EPA for its costs in investigating and cleaning up the contaminated site. A group of PRPs known as the Waste Disposal, Inc. Group (WDIG) initiated the remedial design work for this remedy in 1995 under an EPA enforcement order.

The 1993 ROD did not specifically address groundwater. Because uncertainties remained about the extent of groundwater and soil gas contamination, and because further environmental data were necessary for completion of the remedial design, EPA and the WDIG conducted further site investigations. EPA and the WDIG completed the majority of these additional investigations during the summer of 1998, and EPA is compiling data in order to re-evaluate the selected remedial action and to facilitate remedial design.

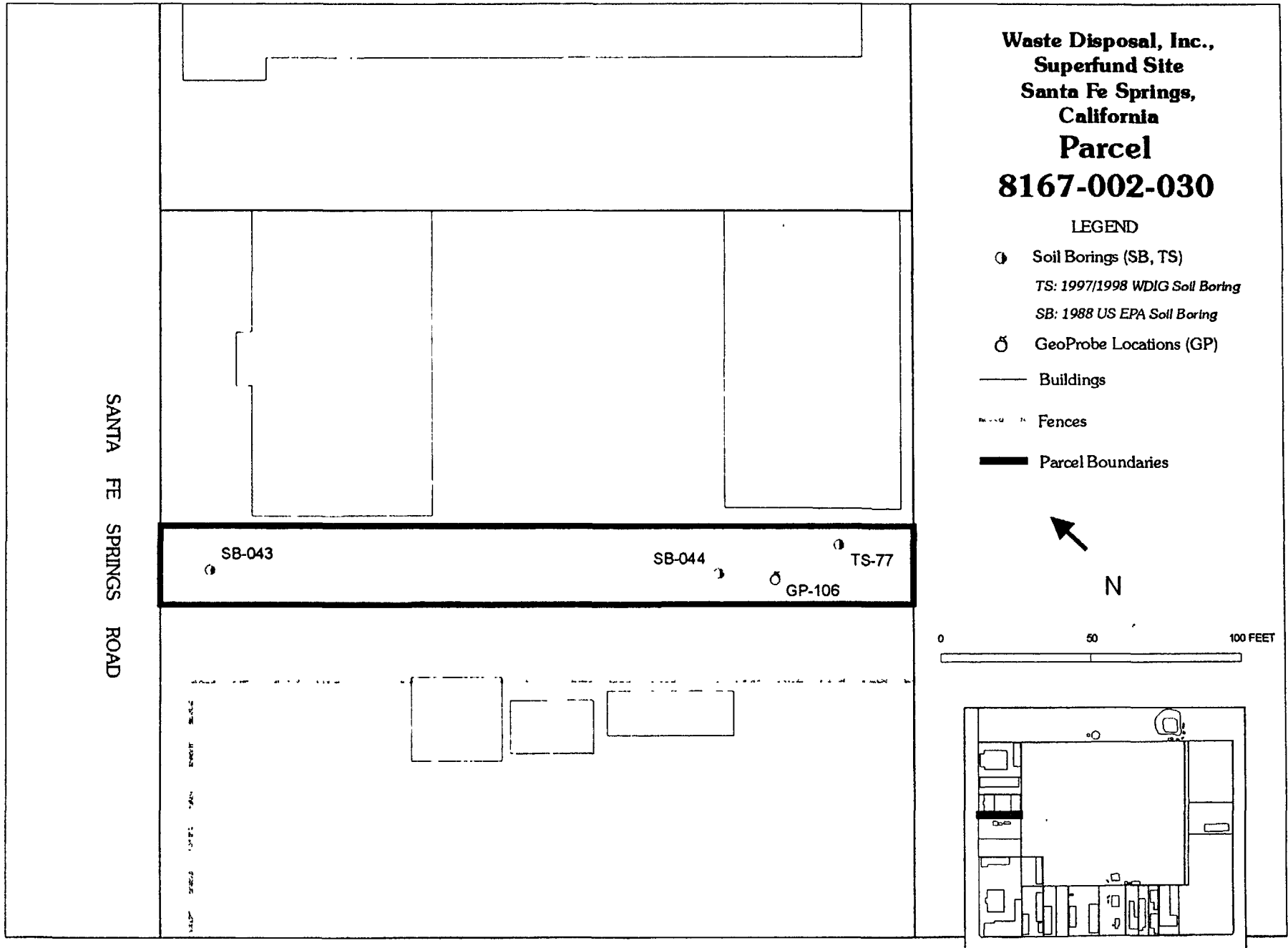
This Status of Environmental Investigations Report for Parcel 030 presents the findings from the various investigations of the WDI site conducted as of 1998 of concern to this specific parcel. Although data emphasis is placed on what is known for this parcel, selected findings from adjacent parcels are also provided when appropriate. Attachment 1 contains a chronological chain of title for Parcel 030 through February 5, 1997.

OVERVIEW OF ENVIRONMENTAL SAMPLING INVESTIGATIONS

EPA 1988 Remedial Investigations

In 1988, EPA conducted the first investigation of the WDI site under CERCLA. This investigation involved the collection of groundwater, soil, and soil gas samples at the site area. Two soil borings (SB-043 and SB-044) were drilled on this parcel by EPA during the 1988 investigation. Figure 2 shows the locations of the soil borings. Attachment 2 presents the boring logs. Table 1 presents the analytical results of the soil samples collected from these soil borings. The analytical results indicate the presence of 2-butanone, a common solvent used to fuse plastics, and the chemicals chrysene, fluorene, phenanthrene, pyrene, and toluene that are all common components of oil-field wastes disposed of at the site. Cadmium was reported for one sample collected from 35 feet below ground surface.

Figure 2: Location of Sampling and Monitoring Points for Parcel 030



Waste Disposal, Inc. Site
Santa Fe Springs, California

APN 8167-002-030

Table 1 Soil Boring Analytical Results for Parcel 030

Sample Location	*ROD Standard	SB-043	SB-043	SB-043	SB-044	SB-044	SB-044
Sample Date		11/88	11/88	11/88	11/88	11/88	11/88
Sample Depth (ft)		5	15	20	10	20	35
Analyte		ppb	ppb	ppb	ppb	ppb	ppb
2-Butanone	NE	13	51	52	8	11	NR
Chrysene	NE	NR	NR	NR	190	NR	190
Fluorene	NE	NR	NR	NR	240	NR	250
Phenanthrene	NE	NR	NR	NR	810	NR	960
Pyrene	NE	NR	NR	NR	180	NR	120
Toluene	NE	NR	55	49	130	24	18
Analyte		ppm	ppm	ppm	ppm	ppm	ppm
Cadmium		NR	NR	NR	NR	NR	50.1

ppb = parts per billion or micrograms per kilogram

ppm = parts per million or milligrams per kilogram

NR = not reported

NE = not established

ROD Cleanup standard established in 1993 Record of Decision

1997-98 EPA Soil Gas/Indoor Air Investigations

During the summer of 1997, EPA collected and analyzed soil gas and indoor air samples at the WDI site, including Parcel 030. The purpose of these investigations was to evaluate the potential for migration of soil gas contaminants from the buried waste into the indoor air of the on-site buildings. In order to establish contaminant levels that could be used to determine the need for future site investigations, EPA developed interim threshold levels for chemicals found in soil gas on-site. If a chemical was found to exceed the interim threshold level, EPA determined the need for additional investigations such as indoor air monitoring or expansion of the soil gas monitoring well network.

EPA developed the interim threshold levels based on certain assumptions and property uses at the site. For each chemical, EPA calculated a risk range and selected a concentration level that was within a one in one million (10^{-6}) or one in 100,000 (10^{-5}) cancer risk, depending on the chemical. Exceedence of that

concentration does not necessarily indicate an immediate risk. The levels are interim for the purposes of the site investigation, and may or may not be adopted as threshold levels for the final remedy.

Soil gas samples were collected from one temporary probe (GP106) shown on Figure 2. The temporary probe was installed by hammering stainless-steel rods to a depth of about 10 ft and then attaching Teflon tubing to an adapter at the bottom of the rods. A portable vacuum pump was used to collect the samples for on-site analysis. Field instruments were also used to detect volatile organic chemicals and methane. Tetrachloroethene at 54 ppbv, a solvent common in the wastes at the site, was the only volatile organic chemical reported for the sample. A site interim action level of 532 ppbv for tetrachloroethene has been established. Methane was reported at 0.2%. The interim threshold level for methane is 1.25%. Based on these results, no further action was taken regarding soil gas investigation of this parcel.

Also during the summer of 1997, EPA collected indoor air samples from within the buildings located at the WDI site. There are no structures on Parcel 30 and thus no indoor sampling was performed on the parcel.

Groundwater Well Sampling Results

There were no groundwater monitoring wells or soil vapor monitoring wells installed on this parcel during the 1988 RI. Wells were installed on adjacent parcels and the data from these wells were used to define the extent of groundwater and soil gas contamination at the site overall. Based on groundwater level measurements made in wells on adjacent parcels, groundwater is about 40 feet below the surface of Parcel 030. Based on groundwater data for the parcels to the north and south of Parcel 030, groundwater appears to be affected by the solvent tetrachloroethene.

Soil Vapor Well Sampling Results

There are no soil vapor monitoring wells on Parcel 030. The soil vapor data for GP106 is the only soil gas data for the parcel.

WDIG Remedial Design Investigative Activities 1997-98

During the fall of 1997 and spring and summer of 1998, the WDIG conducted a number of studies at the WDI site. These studies included the installation of soil vapor wells, the drilling of soil borings for

soil/waste characterization, the evaluation of soil vapor removal technology effectiveness, and the evaluation of liquids removal effectiveness.

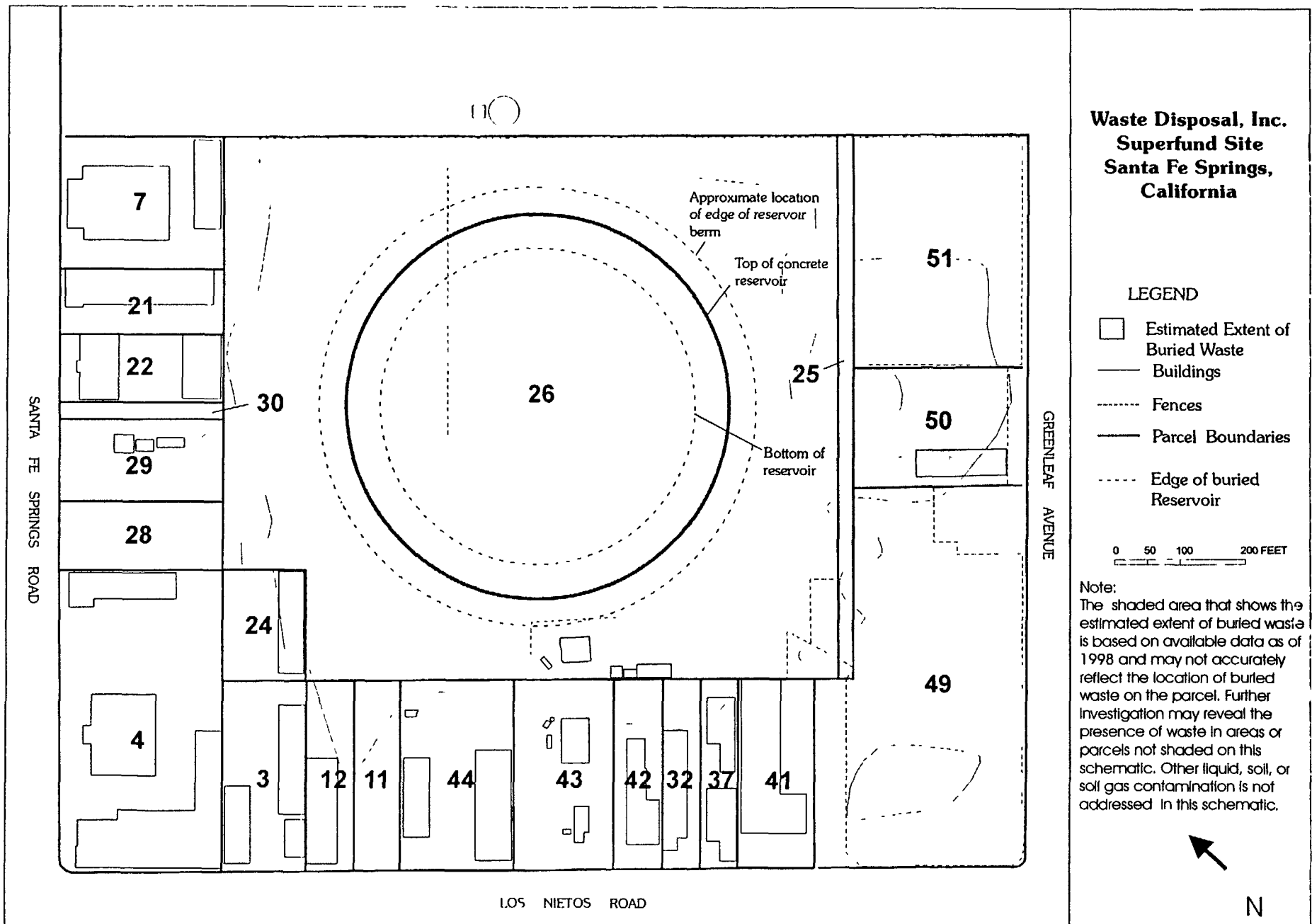
At Parcel 030, the WDIG installed soil boring TS-77 for the purpose of visually defining the extent of buried wastes that surrounds the reservoir area. Wastes were not visually obvious in TS-77 and the soil samples were not chemically analyzed. Attachment 2 contains the soil boring log for TS-77. Figure 3 illustrates the extent of buried waste at the WDI site as defined by numerous soil borings drilled by EPA and the WDIG.

SUMMARY OF ENVIRONMENTAL SAMPLING RESULTS FOR APN 8167-002-030

EPA used soil borings drilled in Parcel 030 and soil gas and groundwater monitoring wells drilled at adjacent parcels to estimate the extent of soil and groundwater contamination for the site overall. The extent of the buried waste mass that surrounds the reservoir area, as shown on Figure 3, is based partially on the results of the 1988 and the 1997-1998 site investigations.

Based on the results from soil borings drilled on, and adjacent to, Parcel 030, it appears that the buried waste mass that underlies much of the central portion of the site borders the eastern edge of Parcel 030. Further investigation would be necessary to rule out that no waste is buried beneath this parcel. The soil gas results for this parcel indicate that the solvent-related chemical tetrachloroethene, found in the waste throughout the site, is also found in soil gas beneath Parcel 030, indicating the possibility of gas migration beneath this parcel. Groundwater data collected from monitoring wells installed in adjacent parcels show the presence of tetrachlorethene.

Figure 3: Waste Disposal, Inc., Santa Fe Springs, CA
Estimated Extent of Buried Waste



BIBLIOGRAPHY OF SELECTED WDI SITE DOCUMENTS

- CDM Federal Programs Corporation (CDM Federal), 1997. Subsurface Gas Contingency Plan, Waste Disposal, Inc. Superfund Site, Santa Fe Springs, California. July 1997.
- CDM Federal, 1999a. Groundwater Data Evaluation Report, Waste Disposal, Inc. Superfund Site, Santa Fe Springs, California. January 14, 1999.
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- EBASCO Services, Inc. (EBASCO), 1989a. Final Soil Characterization Report, Waste Disposal, Inc., Santa Fe Springs, California. May 1989.

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- EBASCO, 1989b. Final Subsurface Gas Characterization Report, Waste Disposal Inc., Santa Fe Springs, California. May 1989.
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- Frey Environmental, Inc.; 1996c. Quarterly Subsurface Combustible Gas Monitoring Results for Property Located at 9843 Greenleaf Avenue, Santa Fe Springs, California. July 11, 1996.
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- Targhee, Inc., 1996. Remedial Action Report, 12631 Los Nietos Road, Santa Fe Springs, California. January 23, 1996.
- TRC Environmental Solutions, Inc. (TRC), 1995. Predesign and Intermediate (60%) Design Report, Soils and Subsurface Gas Remedial Design, Waste Disposal, Inc. Superfund Site, Santa Fe Springs, California. October 1995.
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- TRC, 1999b. 1998 Annual In-Business Air Monitoring Report, Waste Disposal, Inc. Superfund Site. March, 1999.
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USEPA, 1993e. Administrative Order for Remedial Design - Docket No. 94-17, Waste Disposal, Inc. Superfund Site, Santa Fe Springs, California. December 27, 1993.

USEPA, 1997a. Attachment 2- Amended Scope of Work for Remedial Design. Waste Disposal, Inc. Superfund Site Soil and Subsurface Gas Operable Unit, Santa Fe Springs, California. March 1997.

USEPA, 1997b. Docket No. 97-09 - Amended Administrative Order for Remedial Design and Other Response Actions (amending Docket No. 94-17), Waste Disposal, Inc. Superfund Site, Santa Fe Springs, California. 1997.

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USEPA, Environmental Response Team Center, 1999a. Reservoir Characterization Report, Volume I (Physical Characterization) and Volume II (Chemical Characterization), Waste Disposal, Inc. Site, Santa Fe Springs, California. January 15, 1999.

Waste Disposal, Inc. Site
Santa Fe Springs, California

APN 8167-002-030

ATTACHMENTS

**ATTACHMENT 1
CHAIN OF TITLE
THROUGH February 5, 1997
WASTE DISPOSAL, INC. APN 8167-002-030**

No. 1

01-15-21

Book 134 Page 213 of Official Records

James Weaver, et al.

Brenton S. Carr

Granted oil leasehold

No. 2

06-15-21

Book 332 Page 140 of Official Records

Brenton S. Carr / Huntington Owners Oil Co.

James Weaver, et al.

Surrendered oil leasehold

No. 3

11-26-21

Book 587 Page 368 of Official Records

Pacific Land Improvement Co.

Chanslor-Canfield Midway Oil Co.

Grant deed

No. 4

01-22-32

Book 11335 Page 264 of Official Records

Chanslor-Canfield Midway Oil Co.

General Petroleum Corp. of CA

Grant deed to real property, oil rights reserved by seller

No. 5

03-01-40

Book 17327 Page 128 of Official Records

General Petroleum Corp. of CA

Public record

Notice of non-responsibility

No. 6

02-02-42

Book 19044 Page 385 of Official Records

General Petroleum Corp. of CA

Ford Alexander Corp.

Deed to real property, oil rights reserved by Chanslor-Canfield

No. 7
02-26-46
Book 22789 Page 395 of Official Records
Ford Alexander Corp.
Public record
Notice of completion of work

No. 8
10-21-47
Book 25500 Page 167 of Official Records
Ford Alexander Corp.
N. B. Hudson
Grant deed to real property, oil rights reserved by Chanslor-Canfield

No. 9
10-21-47
Book 25500 Page 169 of Official Records
N.B. Hudson
F. Caneer, D. L. Carter, Marvin Pitts
Grant deed as to an undivided 1/4 interest each

No. 10
10-05-51
Book 37358 Page 244 of Official Records
Chanslor-Canfield Midway Oil Co.
Atlantic Oil Co.
Leased oil & gas rights

No. 11
10-05-51
Book 37361 Page 362 of Official Records
Chanslor-Canfield Midway Oil Co.
Public record
Notice of non-responsibility

No. 12
06-15-53
Book 41974 Page 191 of Official Records
Morton and Dolley, a partnership: Harold C. Morton, Dorothy F. Morton, Chester F. Dolley
California Bank, beneficiary, California Trust Co., trustee
Deed of trust

No. 13
04-05-55
Book 47409 Page 100 of Official Records
N. B. Hudson
N. B. Hudson, Bessie Hudson
Grant deed, joint tenancy, 1/4 interest

No. 14
09-14-56 (Doc. date)
Book 52331 Page 1 of Official Records
Morton and Dolley, a partnership: Harold C. Morton, Dorothy F. Morton, Chester F. Dolley
California Bank, beneficiary and trustee
Deed of trust

No. 15
03-30-61
Instrument No. 4213
N. B. Hudson, Bessie Hudson
D. L. Carter, Zelda Carter
Quitclaim deed

No. 16
04-04-61
Instrument No. 3928
Marvin Pitts, Cecilia Pitts, F. Caneer, Wanda Caneer
D. L. Carter, Zelda Carter
Quitclaim deed

No. 17
05-24-61
Instrument No. 1173
D. L. Carter, Zelda Carter
John Maple, Martin Ferris
Grant deed

No. 18
05-24-61
Instrument No. 1174
John Maple, Jean Maple, Martin Ferris, Lucille Ferris
D. L. Carter, Zelda Carter, beneficiaries; Title Insurance and Trust Co., trustees
Deed of trust

No. 19
11-28-61
Instrument No. 4707
City of Santa Fe Springs
M F Building Co., a partnership, by Martin Ferris and John Maple, partners
Variance

No. 20
03-19-63
Instrument No. 4754
D. L. Carter, Zelda Maye Carter, beneficiaries
N. B. Hudson, Bessie Hudson, beneficiaries
Assignment of deed of trust

No 21
11-08-63
Instrument No. 4882
Morton & Dolley, a partnership Harold C. Morton, Dorothy F. Morton, Chester F Dolley, Anna M Dolley
United California Bank, beneficiary and trustee
Deed of trust

No 22
01-29-64
Instrument No 4022
D L Carter
City of Santa Fe Springs
Easement

No 23
02-16-65
Instrument No 5962
United California Bank, trustee
Persons entitled
Full reconveyance
Affects Doc No 12

No 24
02-16-65
Instrument No 5963
United California Bank, trustee
Persons entitled
Full reconveyance
Affects Doc No 14

No 25
05-23-66
Instrument No 2391
N B Hudson, Bessie Hudson, D L Carter, Zelda Carter
F Caneer & Wanda Caneer (1/2 interest), Marvin W Pitts and Cecilia Pitts (1/2 interest)
Grant deed

No 26
09-06-66
Instrument No 294
Title Insurance and Trust Co , trustee
Persons entitled
Full reconveyance
Affects Doc No 18

No 27
09-06-66
Instrument No 295
John Maple, Jean Maple, Martin Ferris, Lucille Ferris
Bank of America N T & S A , beneficiary, Continental Auxiliary Co , trustee
Deed of trust

No. 28
01-23-68
Instrument No. 2174
D. L. Carter, Zelda Carter, N. B. Hudson, Bessie Hudson
F. Caneer, Marvin W. Pitts
Grant deed

No. 29
05-23-69
Instrument No. 2917
Mobil Oil Co.
Public record
Unit agreement

No. 30
05-23-69
Instrument No. 2918
Mobil Oil Co.
Public record
Exhibits to unit agreement

No. 31
08-25-69
Instrument No. 2535
United California Bank, trustee
Security Pacific National Bank
Assignment & substitution of trustee

No. 32
12-28-70
Instrument No. 1146
Mobil Oil Co.
Public record
Certificate

No. 33
01-26-71
Instrument No. 1631
Mobil Oil Co.
Public record
Counterpart C of Unit Agreement

No. 34
02-18-71
Instrument No. 3068
Chanslor-Western Oil & Develop Co.
Public record
Agreement to become a party to unit agreement

No. 35
08-17-71
Instrument No. 3195
Bell Petroleum Co., Roland A. Way, Ethel Eckels
Public record
Agreement to become a party to unit agreement

No. 36
11-22-71
Instrument No. 3911
Estate of Wanda Caneer
John Caneer, Joseph Caneer
Order approving final report & final distribution

No. 37
08-21-72
Instrument No. 3990
Rodman Palmer
Public record
Agreement to become a party to unit agreement

No. 38
09-19-72
Instrument No. 3644
John Caneer, Joseph Caneer, Estate of Fernando Caneer
Internal Revenue Service, beneficiary; Insurance Title and Trust Co., trustee
Deed of trust

No. 39
06-14-73
Instrument No. 704
Title Insurance and Trust Co., trustee
Persons entitled
Full reconveyance
Affects Doc No 38

No 40
06-28-73
Instrument No 3581
Jean Maple
John Maple
Quitclaim deed

No 41
07-08-73
Instrument No. 2753
John Maple
Jean Maple, beneficiary; Title Insurance and Trust Co., trustee
Deed of trust

No. 42
12-20-73
Instrument No. 3425
Catherine Yrisarri
Public record
Agreement to become a party to unit agreement

No. 43
03-22-74
Instrument No. 3808
Mobil Oil Co.
Public record
First revision of exhibit B of unit agreement

No. 44
04-15-74
Instrument No. 2865
Mobil Oil Co.
Public record
Second revision of exhibit B of unit agreement

No. 45
01-20-77
Instrument No. 77-67700
Continental Auxiliary Co., trustee
Persons entitled
Full reconveyance
Affects Doc. No. 27

No. 46
01-20-77
Instrument No. 77-67701
John Maple, Janet Maple, Martin Ferris, Lucille Ferris
National Bank of Whittier, beneficiary; Trustors Security Service, trustee
Deed of trust

No. 47
01-21-77
Instrument No. 77-72341
Title Insurance and Trust Co., trustee
Persons entitled
Full reconveyance
Affects Doc. No. 41

No. 48
12-30-77
Instrument No. 77-1448130
John Caneer, La Rea Caneer, Joseph Caneer, Lucy Caneer
Business Properties Partnership No. 26, a general partnership
Grant deed

No. 49
12-30-77
Instrument No. 77-1448131
Business Properties Partnership No. 26, a general partnership
Adeline R. Bennett, M.D.
Quitclaim deed

No. 50
03-16-79
Instrument No 79-295844
Martin Ferris
Lucille Ferris
Grant deed

No. 51
01-18-82
Instrument No 82-57860
Marvin W. Pitts, Cecilia Pitts, Adeline Bennett
City of Santa Fe Springs
Covenant & agreement to hold property as one parcel

No. 52
05-03-83
Instrument No 83-493853
Marvin Pitts, Cecilia Pitts
Pitts Family Trust
Quitclaim deed

No 53
05-03-83
Instrument No 83-493854
Marvin Pitts, Cecilia Pitts
Pitts Family Trust
Quitclaim deed

No 54
05-02-89
Instrument No 89-697295
Adeline R Bennett
Adeline R Bennett, M D , Trust
Grant deed

No 55
07-19-91
Instrument No 91-1112254
Atlantic Oil Co
Chanslor-Canfield Midway Oil Co
Quitclaim of oil and gas lease

No. 56
05-04-93
Instrument No.93 841422
Lucille F. Ferris
Lucille F. Ferris Living Trust
Quitclaim Deed

Waste Disposal, Inc. Site
Santa Fe Springs, California

APN 8167-002-030

ATTACHMENT 2

Soil Boring Logs

FIELD BORING LOG

OFS NUMBER:															SHEET 1			
PROJECT NAME: WASTE DISPOSAL INC. LOCATION: SANTA FE SPRINGS CALIFORNIA CLIENT NAME: EPA SITE MANAGER: D. MELCHIOR LOGGED BY: L. SAWYER										BORING NUMBER: SB-043 BORING LOCATION: DRIVEWAY DRILLING CONTRACTOR: DATUM DRILLING METHOD: HSA BIT SZ/HAMMER WT/DROP: 7"/140#/30" SAMPLE RETRIEVAL SYS: SPLIT SPOON					DATE/TIME STARTED: 09/30/88 1001 DATE/TIME COMPLETED: 09/30/88 1130 TOTAL DEPTH: 35.00 SURFACE ELEVATION: 152.8300 WATER DEPTH: 0.00			
DEPTH IN FEET	GRAPHIC LOG						SAMPLE DATA										DESCRIPTION	
	B O U L D E R S	C O B L E S	C R S T A L L I N E	M I N E R A L S	F I N E S I L T Y	S C A L E	S A M P L E #	B L O W S 6"	O V A P P M	C G I X L E L	O D O R	C O L O R	M O I S T U R E	P O R / P E M	U S C S S Y M B	N U		
0								0 0 0	0.0	0	N	LB- RB	DR- SM	H-L	SW	0.0	DRILL THROUGH 5" CONCRETE. DRILL THROUGH FILL/CONCRETE. FILL IS BROWN, MEDIUM TO COARSE GRAIN SAND WITH PEBBLES & GRAVEL IN UPPER 3". UNDERLAYING RED BROWN CLAYER FILL. NO SAMPLE COLLECTED.	
5								01 02 03	8 10 16	1.4	3	N	RB	SM- M	L	CL	1.4	RED BROWN SILTY CLAY AND CLAYEY SILT. NO VISIBLE CONTAMINATION. SOME RED SAND. CLP SAMPLES COLLECTED.
10								36 0 0	36.0	4	N	LB	SM- DR	L	ML	3.6	LIGHT BROWN SANDY SILT WITH MINOR CLAY. NO VISIBLE CONTAMINATION. NO SAMPLE COLLECTED.	
15								04 05 06	13 11 39	8.0	2	N	LB	SM- DR	L	ML	0.0	LIGHT BROWN CLAYEY SANDY SILT. NO VISIBLE CONTAMINATION. CLP SAMPLE COLLECTED.
20								07 08 09	12 5 6	1.0	0	N	LB	DR	L	ML	0.4	LIGHT BROWN SILTY CLAY TO CLAYEY SILT. NO VISIBLE CONTAMINATION. CLP SAMPLE COLLECTED.
25								10 20 20	0.8	4	N	LB	DR	L	SM	0.0	LIGHT BROWN CLAYEY SILTY SAND TO SANDY SILT WITH CLAY. NO VISIBLE CONTAMINATION. NO SAMPLE COLLECTED.	
30								7 9 11	0.2	0	HC	G	SM	H	SP	0.0	MEDIUM TO FINE GRAINED MICACEOUS QUARTZ SAND, NO VISIBLE CONTAMINATION, NO SAMPLE COLLECTED.	
35								10 11	87 6 0	0.8	0	SL- HC	G	SM	H	SP	1.4	MEDIUM TO COARSE GRAINED SAND, LOOSE; QUARTZ RICH, SOME HYDROCARBON ODOR. NON CLP SAMPLE. PARTIAL SAMPLE RECOVERY. COMPLETE AS GAS WELL.

FIELD BORING LOG

OFS NUMBER:

SHEET 1

PROJECT NAME: WASTE DISPOSAL INC.
 LOCATION: SANTA FE SPRINGS
 CALIFORNIA
 CLIENT NAME: EPA
 SITE MANAGER: D. MELCHIOR
 LOGGED BY: L. SAWYER

BORING NUMBER: SB-044
 BORING LOCATION: MERSIT'S EQUIP.
 DRILLING CONTRACTOR: DATUM
 DRILLING METHOD: HSA
 BIT SZ/HAMMER WT/DROP: 7"/140#/30"
 SAMPLE RETRIEVAL SYS: SPLIT SPOON

DATE/TIME STARTED: 09/29/88 1005
 DATE/TIME COMPLETED: 09/29/88 1153
 TOTAL DEPTH: 35.00
 SURFACE ELEVATION: 153.5700
 WATER DEPTH: 0.00

DEPTH IN FT	GRAPHIC LOG						SAMPLE DATA										DESCRIPTION	
	B O U L D E R S	C O B B L E S	C R E S S E D	M E N D D	F I N E S S I L T	C L A Y	S A M P L E #	B L O W S 6"	O V A P P M	C G I X L E L	O D O R	C O L O R	M O I S T U R E	P O R / P E M	U S C S S Y M B	H N U		
0								0 0 0	0.0	0						0.0	FILL; BLACK CLAYEY ASPHALTIC MATERIAL MIXED WITH CONCRETE, PEBBLES, AND CONSTRUCTION MATERIAL. NO SAMPLE COLLECTED.	1005
5				X--X		X--X		0 0 0	7.0	6 N		BL/ RB	MO- DR	L	CL	0.8	FILL BLACK SILTY ASPHALTIC CLAY AND CONCRETE MIXED WITH CONSTRUCTION MATERIAL. NO SAMPLE COLLECTED DUE TO CONCRETE.	1013
10		X		X		X--X	01 02 03	65 0 0	30.0	2 N		B/R B	DR- SM	L	CL	0.4	POORLY SORTED SILTY CLAY WITH PEBBLES OR CLAYEY SILT WITH PEBBLES. NO VISIBLE CONTAMINATION. CLP SAMPLES COLLECTED; PARTIAL RECOVERY.	1028
15						X--X--X		40 60 80	130.0	8 N		BR	DR	L	ML	0.6	STIFF CLAYEY SILT GRADING TO SILTY SAND. NO VISIBLE CONTAMINATION. NO SAMPLES COLLECTED.	1044
20						X--X--X	04 05 06	20 35 20	290.0	5 N		BR	DR	L	ML	0.4	BROWN SILT WITH MINOR CLAY GRADING AT 21.5 TO A FINE SANDY SILT; NO VISIBLE CONTAMINATION; CLP SAMPLES COLLECTED.	1100
25						X		35 50 0	1000.0	10 N		BR	DR	L	ML	0.4	SILT SAMPLE DESCRIBED FROM CONTINUOUS CORE. NO SAMPLE RECOVERY.	1112
30						X--X--X		50 0 0	200.0	0 N		BR	DR	H	SW	0.4	MEDIUM TO COARSE GRAINED QUARTZ SAND WITH MINOR FINE SAND. DROPPED CEC PROBE DOWN HOLE; LOW SAMPLE RECOVERY.	1127
35						X--X--X	07 08 09	50 60 0	0.2	11 N		B	DR	H	SW	0.0	COARSE GRAINED SAND WITH SOME FINE GRAINED SAND; NO VISIBLE CONTAMINATION NON-CLP SAMPLE; PARTIAL RECOVERY. END OF HOLE.	1153

Boring No.

MONITORING WELL WOI-TS-77 SHEET 1 OF 1											
DEPTH IN FEET	PID or FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE TYPE	U.S.C.S.	PROFILE/ LITHOLOGY	WELL CONSTRUCTION DETAIL	DRILLING CO./RIG <u>TEC</u> SAMPLER TYPE <u>Cont. Core</u> AND DIMENSION <u>1" x 2"</u>		COORDINATES N <u>NM</u> E <u>NM</u>		
							FIELD ENGINEER/ GEOLOGIST <u>A. Isaly</u>		DATE BEGAN <u>11-4-97</u> DATE FINISHED <u>11-4-97</u>		
							EDITED BY <u>A. Isaly</u>		GROUND SURFACE EL. <u>NM</u>		
							CHECKED BY _____				
0	NA	0845	CC				4"-6" concrete slab DESCRIPTION (1'-2') Silty Sand to Sand & Silt brown, trace of gravel and sand, micaceous, slightly moist, No odor, No staining. (2'-4') similar material as 1'-2' core. Black material interspersed, Dark brown, No odor, No staining. (4'-6') similar as 2'-4' core. Increase in silt content, No odor, No staining. (6'-8') Clay, Red brown, trace of fine grained sand, micaceous, stiff, slightly moist, No odor, No staining. (8'-10') similar material as 6'-8' core. No odor, No staining. (10'-12') similar material as 8'-10' core. Increase in silt content, No odor, No staining. (12'-14') similar material as 10'-12' core. Brown, slightly moist, No odor, No staining.				
5		0855	1.4'	ml/sm							
		0900	1.3'								
		0905	1.5'								
10		0910	2'		C						
		0915	2'								
			1.5'								
15											
20											
25											
30											
35											
40											

Did not encounter impacted soil.

TOTAL DEPTH: 14 FEET

Did not encounter liquids during drilling.

Backfilled with bentonite pellets & concrete patch

NA - Not Applicable

NM - Not Measured

CC - Continuous Core

Client PROJECT NAME Unocal

PROJECT NO. 94-256

LOCATION Santa Fe Springs, CA

ENVIRONMENTAL SOLUTIONS, INC.

ATTACHMENT 3

Glossary of Terms

Glossary of Terms and Acronyms for Superfund

Cleanup: Actions taken to deal with a release or threatened release of hazardous substances that could affect public health or the environment. The term “cleanup” is often used broadly to describe various response actions or phases of remedial responses such as the Remedial Investigation/Feasibility Study (RI/FS).

Community Relations: EPA’s program to inform and involve the public in the Superfund process and respond to community concerns.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): A Federal law passed in 1980 and modified in 1986 by the Superfund Amendments and Reauthorization Act (SARA). The Acts created a special tax that goes into a Trust Fund, commonly known as Superfund, to investigate and clean up abandoned or uncontrolled hazardous waste sites. Under the program, EPA can either;

- Pay for site cleanup when parties responsible for the contamination cannot be located or are unwilling or unable to perform the work, or
- Take legal action to force parties responsible for site contamination to clean up the site or pay back the Federal government for the cost of the cleanup.

Cost-Effective Alternative: The cleanup alternative selected for a Superfund site based on technical feasibility, performance, reliability, and cost. The selected alternative does not require EPA to choose the least expensive alternative. It requires that if there are several cleanup alternatives available that deal effectively with the problems at a site, EPA must choose the remedy on the basis of performance, reliability, and cost.

Feasibility Study (FS): See Remedial Investigation/Feasibility Study (RI/FS)

Information Repository: A file containing the current information, technical reports, and response documents regarding a Superfund site. The Information Repository is usually located in a public building that is convenient for local residents, such as a public library.

Operation and Maintenance (O&M): Activities conducted at a site after a response action occurs, to ensure that the cleanup or containment system is functioning properly.

Potentially Responsible Party (PRP): Any individual(s) or company(s) (such as owners, operators, transporters, or generators) potentially responsible for, or contributing to, the contamination problems at a Superfund site. Whenever possible, EPA requires PRP’s, through administrative and legal actions, to clean up hazardous waste sites they have contaminated.

Proposed Plan: The documentation of EPA's proposed remedy for a Superfund site based on the RI/FS. The Proposed Plan is put out for public comment and serves as the basis for input from all concerned parties. Comments generated from the Proposed Plan are compiled and considered by EPA and presented in the Record of Decision (ROD).

Public Comment Period: A time period during which the public can review and comment on various documents and EPA actions. For example, a Public Comment Period is provided when EPA proposes to a remedy at a site through a Proposed Plan.

Public Hearing: A public meeting held during the Public Comment Period where public testimony is taken by the EPA from any concerned parties. Comments provided during the Public Hearing are recorded in the record and are responded to by the EPA in the Response to Comments.

Record of Decision (ROD): A public document that explains which cleanup alternative(s) will be used at a Superfund site. The Record of Decision is based on information and technical analysis generated during the Remedial Investigation/Feasibility Study (RI/FS) and consideration of public comments and community concerns.

Remedial Action (RA): The actual construction or implementation phase that follows the Remedial Design of the selected cleanup alternative at a Superfund site.

Remedial Design (RD): An engineering phase that follows the Record of Decision when technical drawings and specifications are developed for the subsequent Remedial Action at a Superfund site.

Remedial Investigation/Feasibility Study (RI/FS): Two distinct but related studies. They are usually performed at the same time, and together referred to as the "RI/FS". They are intended to:

- Gather the data necessary to determine the type and extent of contamination at a Superfund site;
- Established criteria for cleaning up the site;
- Identify and screen cleanup alternatives for Remedial Action;
- Analyze in detail the technology and costs of the alternatives.

Remedial Project Manager (RPM): The EPA official responsible for overseeing the Remedial Response activities at a Superfund site.

Responsiveness Summary: A summary of both oral and written public comments received by EPA during a Public Comment Period on key EPA documents and EPA's response to those comments. The Responsiveness Summary is included in the Record of Decision as the record of community concerns for EPA decision-makers.

Superfund: The common name used for the Comprehensive Environmental Response, Compensation, and Liability Act.

Waste Disposal, Inc. Group (WDIG): The group of corporations identified as Potentially Responsible Parties that are named in EPA's enforcement order to perform investigations and remedial design activities for the WDI site.

Acronyms

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

FS: Feasibility Study

O&M: Operations & Maintenance

PRP: Potentially Responsible Parties

ROD: Record of Decision

RA: Remedial Action

RD: Remedial Design

RI/FS: Remedial Investigation/Feasibility Study

RPM: Remedial Project Manager

WDIG: Waste Disposal, Inc. Group